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Director – Regulatory Affairs



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FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

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October 26, 2001

Ms. Magalie R. Salas  
Secretary  
Federal Communications Commission  
445 Twelfth Street, S.W.  
Washington, DC 20554

EX PARTE OR LATE FILED

**Ex Parte:** Federal-State Joint Board on Universal Service, CC Docket No. 96-45;  
1998 Biennial Regulatory Review – Streamlined Contributor Reporting Requirements,  
CC Docket No. 98-171; Telecommunications Services for Individuals with Hearing and  
Speech Disabilities and the Americans with Disabilities Act of 1990, CC Docket No. 90-  
571; Administration of the North American Numbering Plan and North American  
Numbering Plan Cost Recovery Contribution Factor and Fund Size, CC Docket No. 92-  
237, NSD File No. L-00-72; Numbering Resource Optimization, CC Docket No. 99-200;  
and Telephone Number Portability, CC Docket No. 95-116

Dear Ms. Salas:

On October 16, 2001, representatives of Cambridge Strategic Management Group (CSMG) and Verizon met with the staff of the Common Carrier Bureau to review the results of their study, which demonstrates how a per-line recovery mechanism would dramatically increase the telephone service bills for households with lower long distance usage. In response to staff questions and requests, additional information and data supporting the CSMG study is provided in the accompanying material. In addition, minor changes to the study are made to reflect various updates to data previously submitted.

Pursuant to Section 1.1206(a)(1) of the Commission's rules, and original and one copy of this letter are being submitted to the Office of the Secretary. Please associate this notification with the record in the proceedings indicated above. If you have any questions regarding this matter, please call me at (202) 515-2530.

Sincerely,

W. Scott Randolph

Attachment

cc: Katherine Schroeder  
Anita Cheng  
Paul Garnett  
Greg Guice  
Jim Lande  
Geoff Waldau

No. of Copies rec'd 041  
List A B C D E

# **In Support of the Current USF Contribution Mechanism**

**October 2001**



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**Discussion Items: Changing the Current Universal Service Fund Contribution Mechanism is Unnecessary, Bad for Low Usage Long Distance Consumers, and is Therefore Bad Public Policy**

- Forecasted Consumer Contributions Remain Roughly the Same Unless the Fund Size is Increased with Additional Programs
- A Per-Line Recovery Mechanism Shifts a Disproportionate Share to Lower LD Spend Households Which May Result in Consumer Backlash

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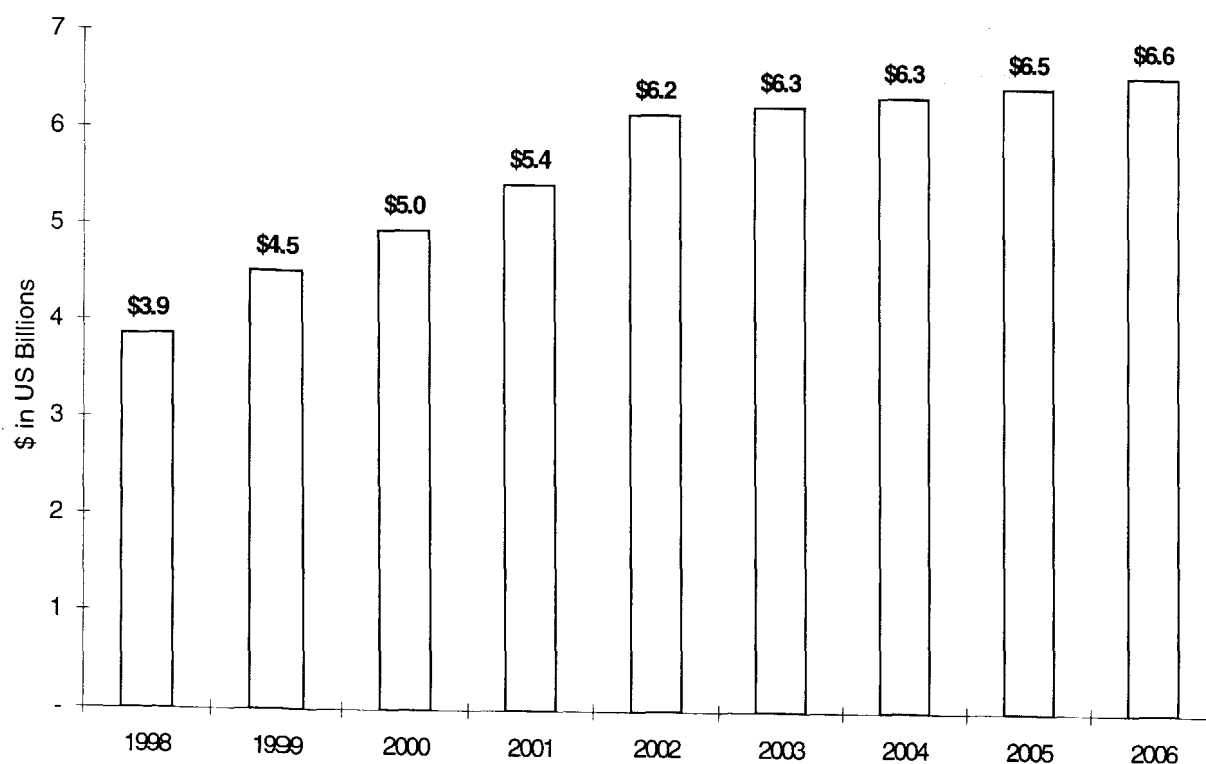
## Methodology

- Verizon Engaged the Cambridge Strategic Management Group (CSMG)
- CSMG Utilized Third Party Information to Develop the Bulk of the Data and Perform all the Analysis for This Study

In order to address the impact of changes in USF contribution mechanisms, we start with a forecast of the fund size, including all current programs and the anticipated MAG plan

- The fund stays relatively constant after 2002 when the MAG plan is implemented

*Forecasted Universal Service Fund*



**USF fund includes:**

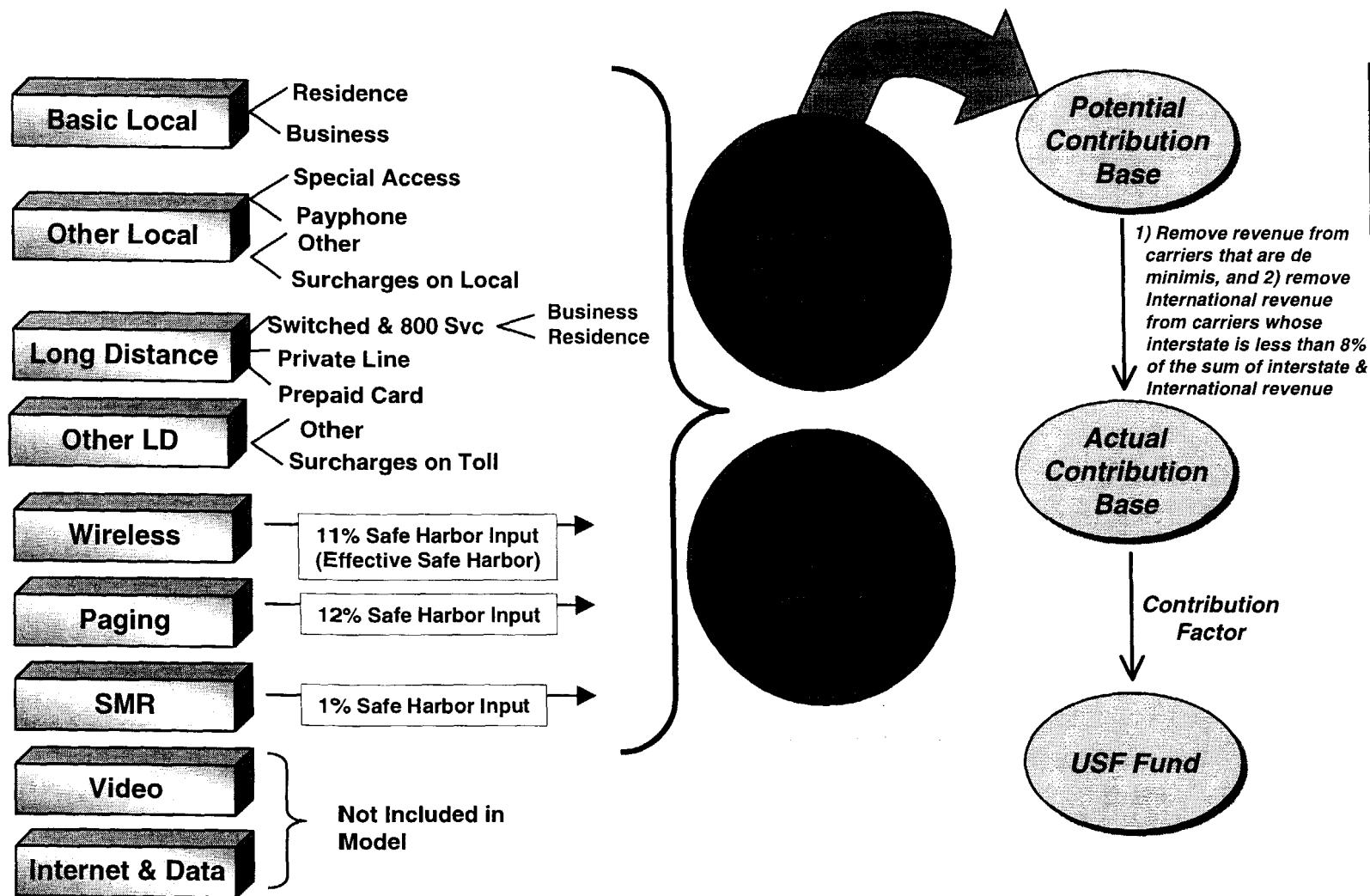
**Existing programs:**

- High Cost Fund (HCF)
  - High Cost Loop Support (HCL)
  - Long Term Support (LTS)
  - Local Switching Support (LTS)
  - Forward-Looking High Cost Support (Proxy Model)
  - Interstate Access Service Support (CALLS program started 7/1/00)
- Low Income Support
- Schools/Libraries and Rural Health Care (started 1/1/98)

**Future programs:**


- New High Cost Program-Multi-Association Group (MAG) plan - estimated start 1/1/02


We then develop an end-user based model that generates total industry revenues. We use interstate and international revenues to estimate the contribution base from which the universal service fund is derived



- Model uses actual data for 1999 and 2000 where available and forecasts each service through 2006
- Revenues are forecasted using historical growth rates and/or 3<sup>rd</sup> party forecasts
- All displacement and replacement estimates described on the following page are derived from 3<sup>rd</sup> party sources

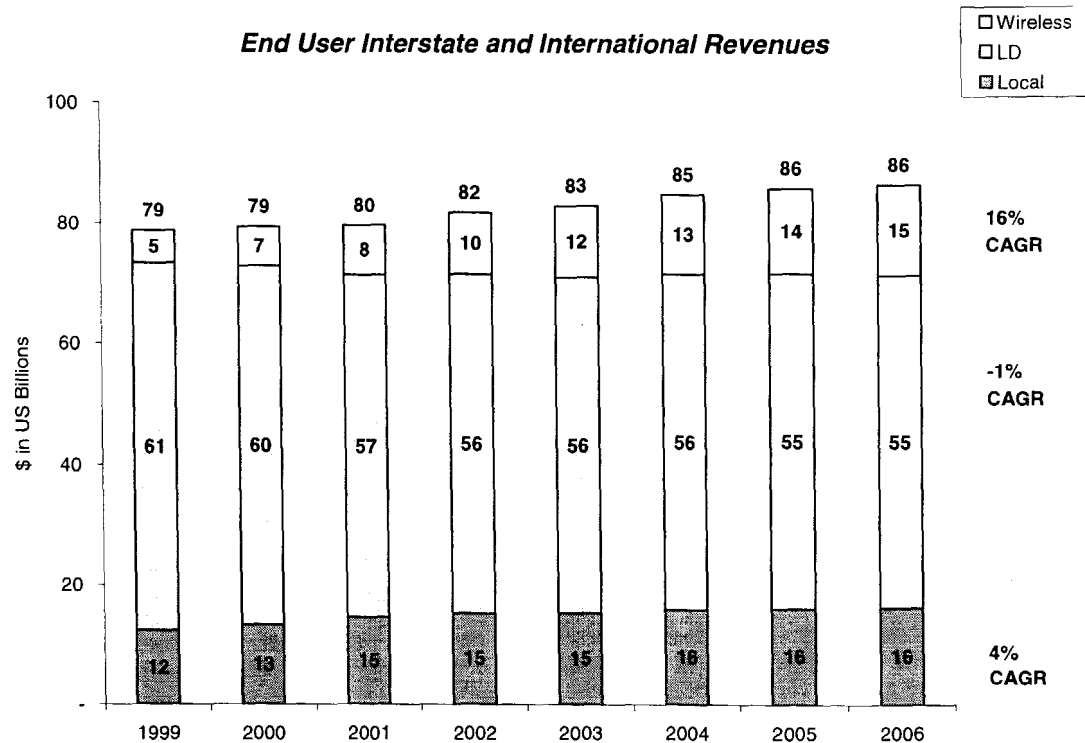
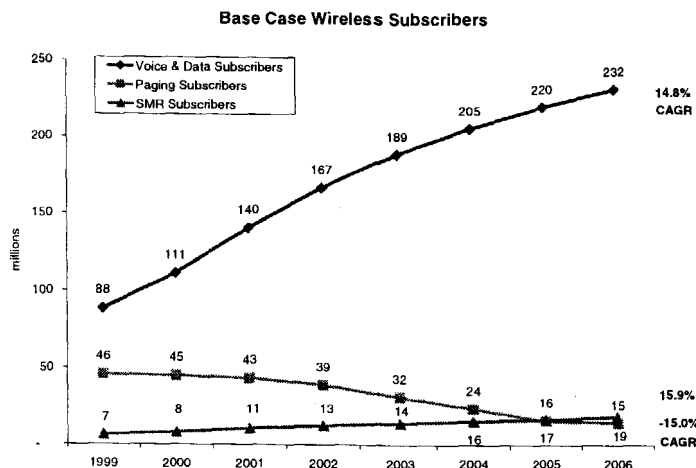
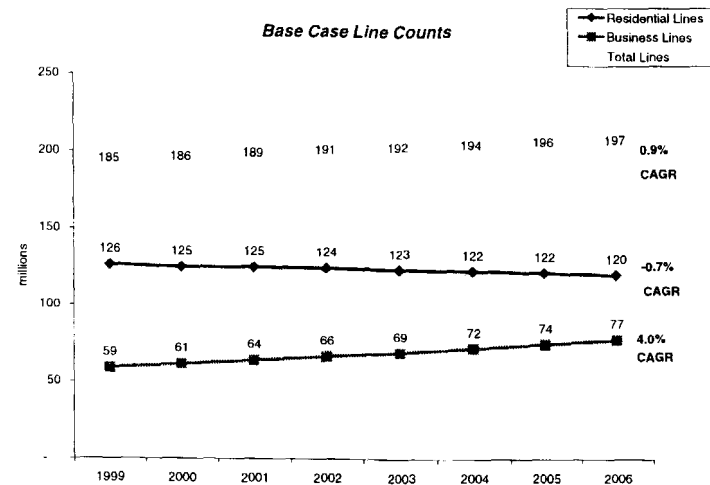
For a base case analysis, we include the effects of current and future industry trends (access line replacement and long distance MOU displacement) which we forecast with the aid of 3<sup>rd</sup> party reports

<b>Access Line Replacement*</b>	
	
<b>Description</b>	<ul style="list-style-type: none"> <li>Decline in access line growth due to increased substitution of wireless for wireline (both primary and non-primary lines)</li> <li>Residential only – business not included due to lack of adequate 3<sup>rd</sup> party forecasts</li> <li>Decline in access line growth due to increased broadband penetration (cable modem &amp; DSL) vs. dial-up Internet access</li> <li>Residential and business</li> </ul>
<b>Sources</b>	<ul style="list-style-type: none"> <li>IDC Replacing Landline with Wireless: How Far Can it Go? 2000</li> <li>Yankee Group VoDSL: All Talk, No Action ... Yet, 2000</li> <li>JPMorgan/McKinsey Broadband 2001</li> <li>PCIA Global Wireless Portfolio 2000</li> <li>MSDW The Broadband Report 2000</li> </ul>

<b>LD MOU Displacement</b>	
	
<b>Description</b>	<ul style="list-style-type: none"> <li>Shift of wireline MOU to wireless as packages including LD become more common and rates decline</li> <li>Residential only – business not included due to lack of adequate 3<sup>rd</sup> party forecasts</li> <li>Shift of circuit-originated MOU to VoIP as VoIP technology becomes widespread and consumers take advantage of lower rates</li> <li>Residential and business</li> </ul>
<b>Sources</b>	<ul style="list-style-type: none"> <li>Yankee 2000</li> <li>Yankee TAF Survey 2000</li> <li>IDC Replacing Landline with Wireless: How Far Can it Go? 2000</li> <li>Yankee Group VoDSL: All Talk, No Action ... Yet, 2000</li> </ul>

\*NOTE: For the purposes of the USF model, we are not including the effect of competitive technology substitution from cable telephony and VoDSL. These technologies drive a shift from traditional land lines to non-traditional carriers but will not affect the total revenue from voice services. The USF national model derives aggregate end user industry revenues and thus should not exclude lines served by competitive technologies.

The resulting access line and subscriber forecasts generate interstate/international end user revenue forecasts; this revenue grows slowly but steadily at about 1% per year overall

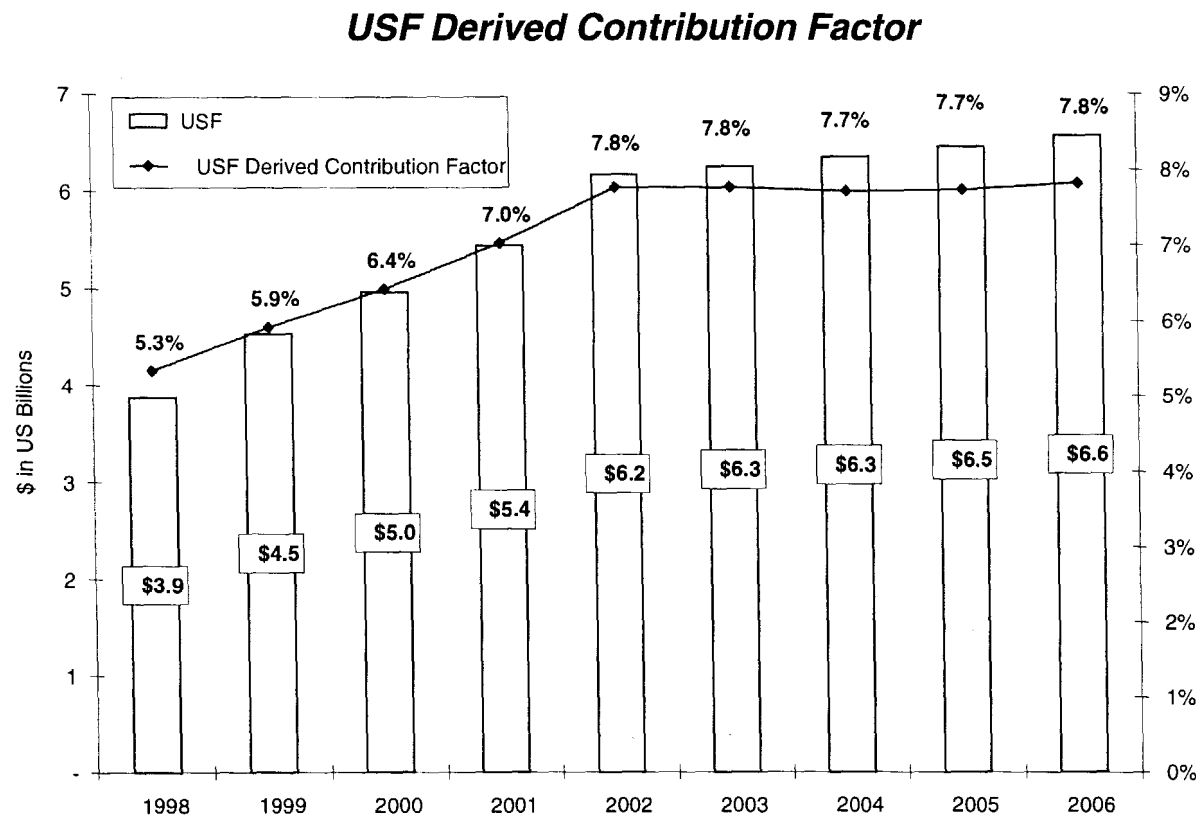


**Overall Compound Annual Growth Rate (CAGR) = 1%**

Note: We assume that the current effective 11% wireless safe harbor is constant over the entire forecast period

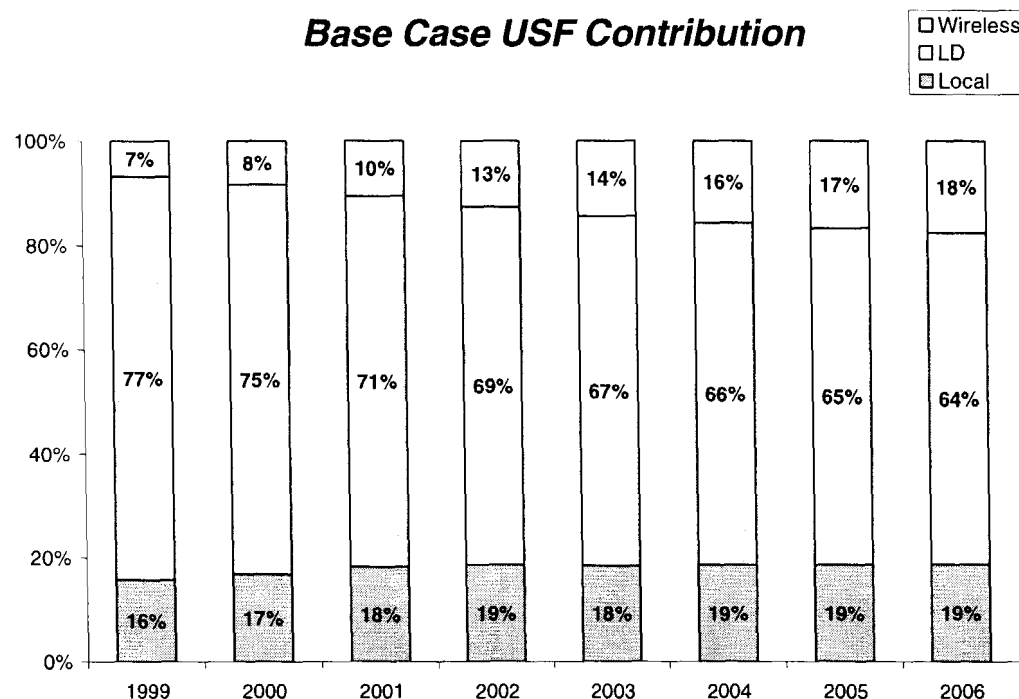


Using the model-generated interstate/international revenue and the independent fund forecast, we derive a contribution factor that grows to 7.8% in 2002 and remains steady thereafter



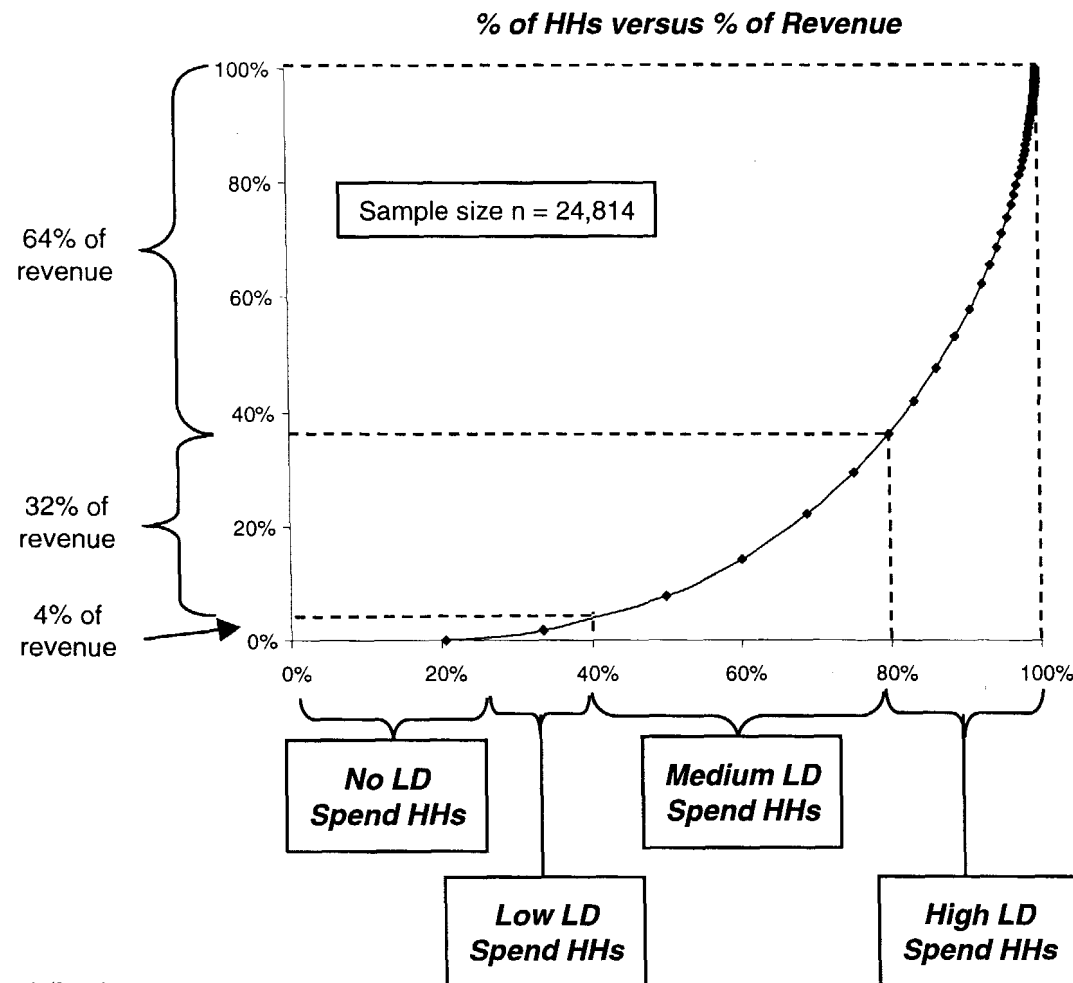
**This forecast thus demonstrates that consumer contributions will remain roughly constant unless the fund size is increased with additional programs**

Using the derived contribution factor and interstate retail revenue forecasted by the national model, we find that local and wireless revenues increase over time (as opposed to long distance revenue)



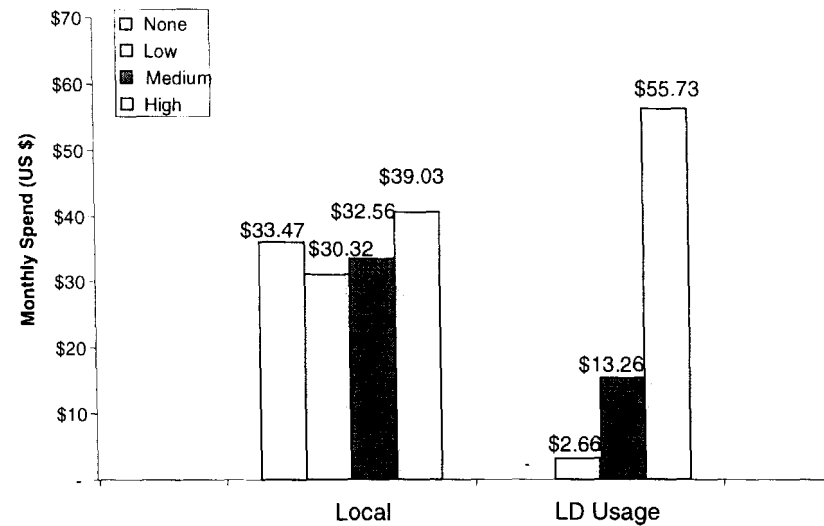
Local Contribution	\$0.8B	\$1.2B	\$1.2B	\$1.2B	8.1%
Long Distance Contribution (Intra LATA & Inter LATA)	\$3.7B	\$4.2B	\$4.1B	\$4.2B	2.6%
Wireless Contribution	\$0.4B	\$0.8B	\$1.0B	\$1.2B	20.7%
<b>TOTAL FUND</b>	<b>\$5.0B</b>	<b>\$6.2B</b>	<b>\$6.3B</b>	<b>\$6.6B</b>	<b>5.5%</b>

In order to address the FCC's concerns about whether the proposed flat per-line assessment methodology shifts a disproportionate share of contributions on specific classes of customers, we use the TNS bill harvest database to yield four consumer segments based on LD spending level



Below are details on the four household profiles, showing that local monthly bills are similar for all segments while LD spend is significantly different by segment





*Consumer Spend Levels by Service*



Service	Local			LD Usage			LD USF			No Identified LD Provider		
	Monthly Bill for HHs with Service	% With Service	Lines per HH	Monthly Bill for HHs with Service	% With Service	Lines per HH	Monthly Bill for HHs with Service	% With Service	Lines per HH	Monthly Bill for HHs with Service	% With Service	Lines per HH
Local	\$33.47	100%	1.07	\$30.32	100%	1.06	\$32.56	100%	1.08	\$39.03	100%	1.16
LD Usage	\$0	0%		\$2.66	100%		\$13.26	100%		\$55.73	100%	
LD USF	\$0			\$0.28			\$0.97			\$2.12		
No Identified LD Provider	30%			14%			5%			3%		

**Indeed, the per-line recovery mechanism dramatically increases the household recovery for lower LD usage households which may ultimately result in consumer backlash**

- The contribution from 80% of all US households (no, low, and medium LD usage households) will significantly increase with a per-line recovery mechanism
- While the contribution from the remaining 20% of all US households (high LD usage households) will decrease with a per-line recovery mechanism

<b>No LD Usage 25% of Households</b>	\$0.44	\$1.52		Increases by 245%
<b>Low LD Usage 15% of Households</b>	\$0.72	\$1.64		Increases by 128%
<b>Medium LD Usage 40% of Households</b>	\$1.41	\$1.76		Increases by 25%
<b>High LD Usage 20% of Households</b>	\$2.59	\$1.90		Decreases by 27%

**In summary, the proposed per line assessment mechanism does not benefit consumers, the FCC, USAC, or industry players; therefore, the current USF interstate and international retail revenue assessment method should remain in place**

### **CONSUMERS**

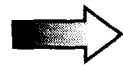
- In a uniform per-line assessment method, the consumer segments representing low to moderate LD spending (80% of total US households) would unfairly bear an increased USF burden while the 20% of households with high LD spend would be responsible for a lower contribution

### **INDUSTRY PLAYERS**

- With a different USF contribution mechanism, telecommunications carriers would incur significant capital and operating investments to comply with a different assessment mechanism (e.g. customer service, updated billing systems, employee training, etc.)
- A per-line or per-account method would reduce the collection burden on providers with higher interstate/international revenues by increasing the collection burden on providers with lower interstate/international revenues

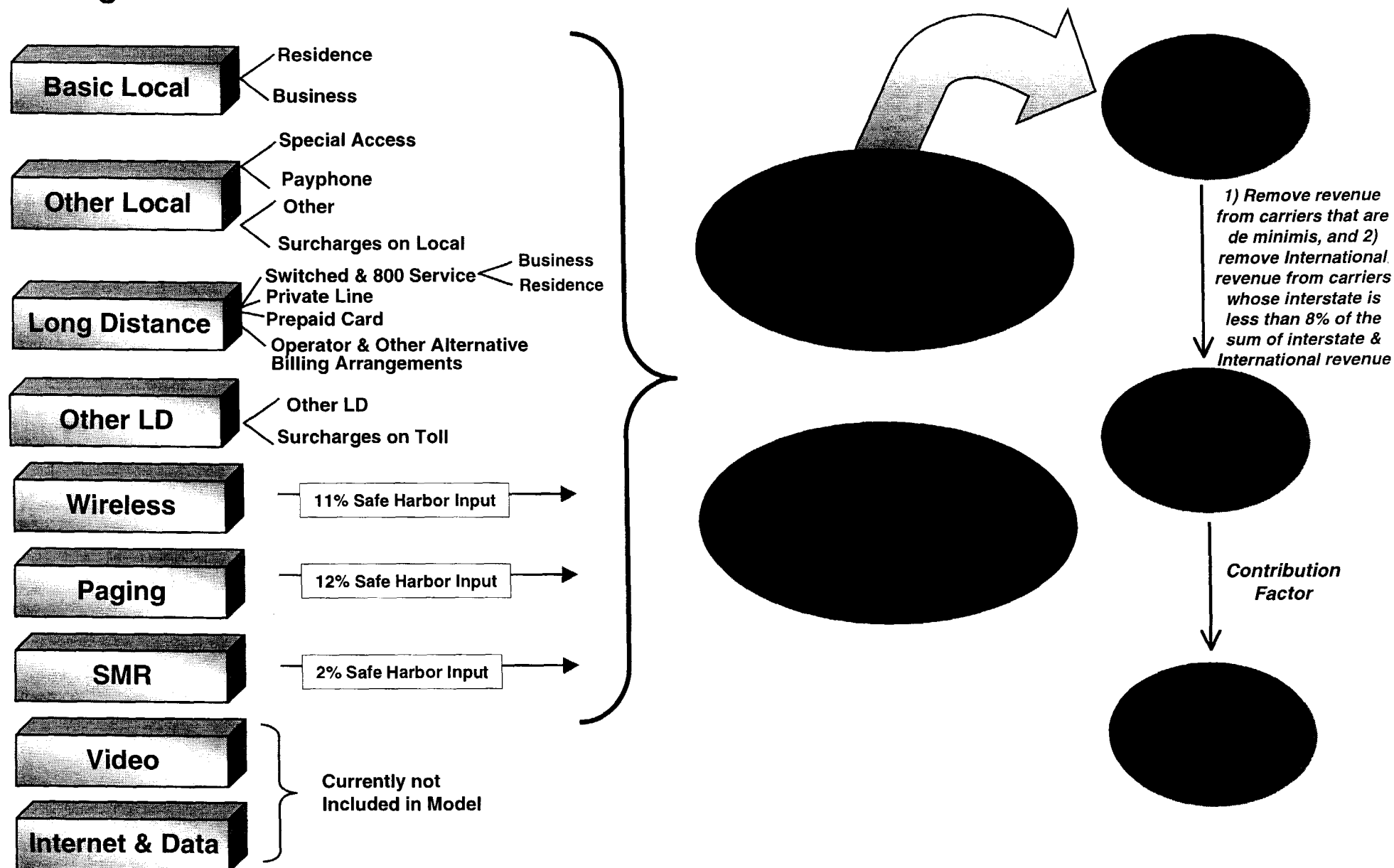
## Today's discussion

- Appendix



- Model Structure
  - Access Line Forecasts
  - MOU Forecasts
  - Wireless 3<sup>rd</sup> Party Forecasts
  - Long Distance
  - Consumer Analysis
-

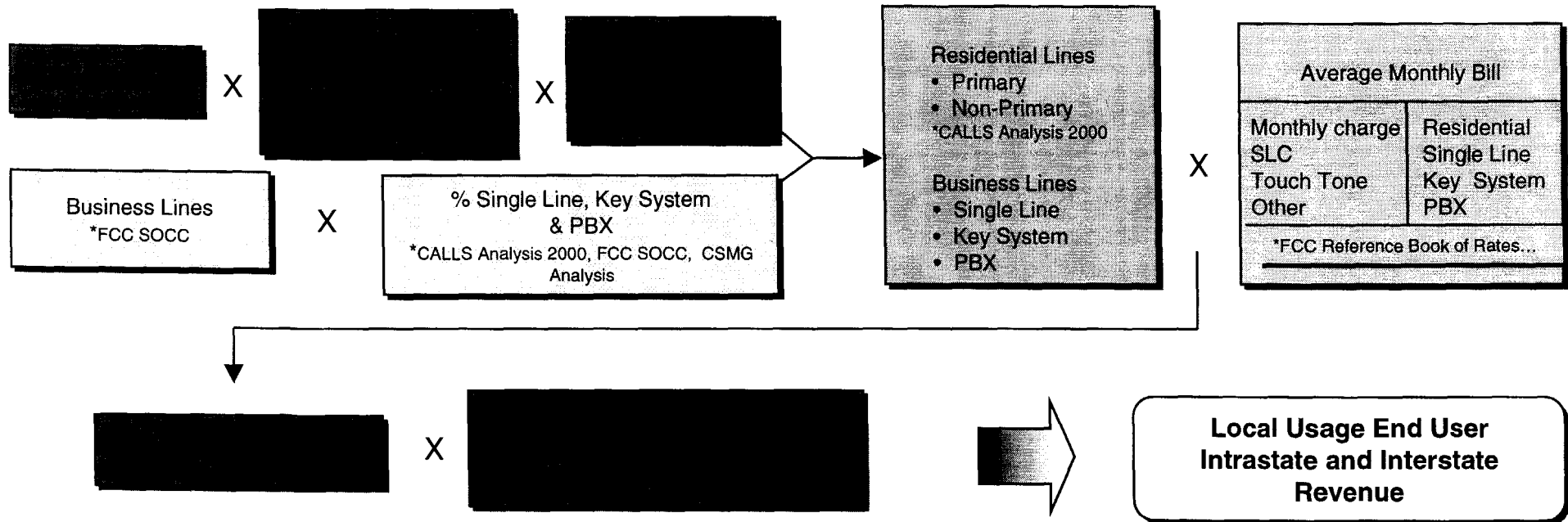
# The national USF model forecasts end user interstate and international revenue through 2006





## Model structure for local revenues

### BASIC LOCAL REVENUE:



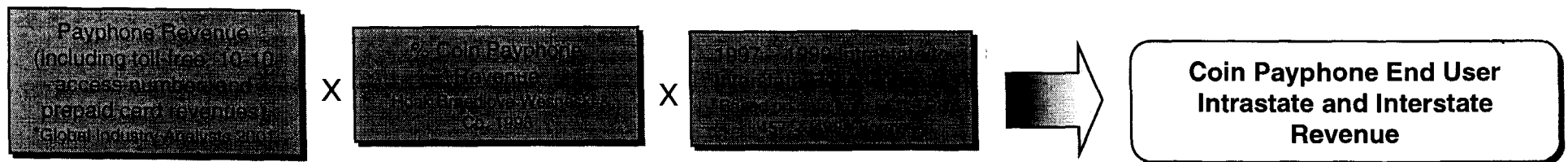
### OTHER LOCAL REVENUE:



Special access revenue is a simple revenue forecast using MMTA projected growth rates in private line spending

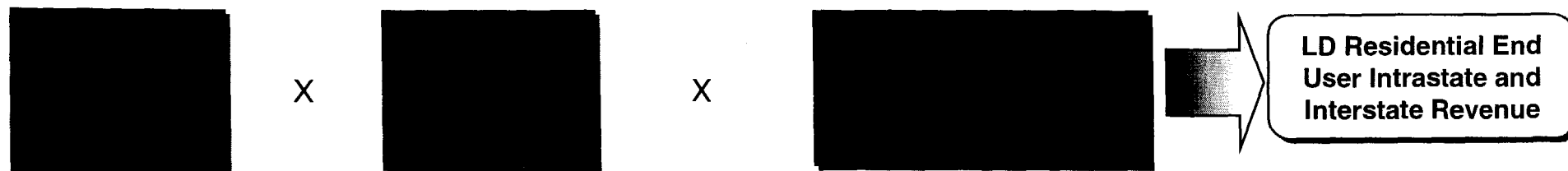


... while payphone revenue is estimated with the aid of third party analysis

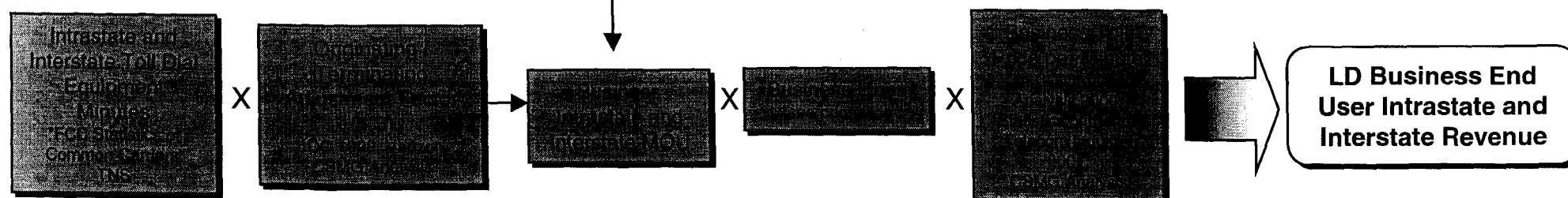


## Model structure for long distance revenues

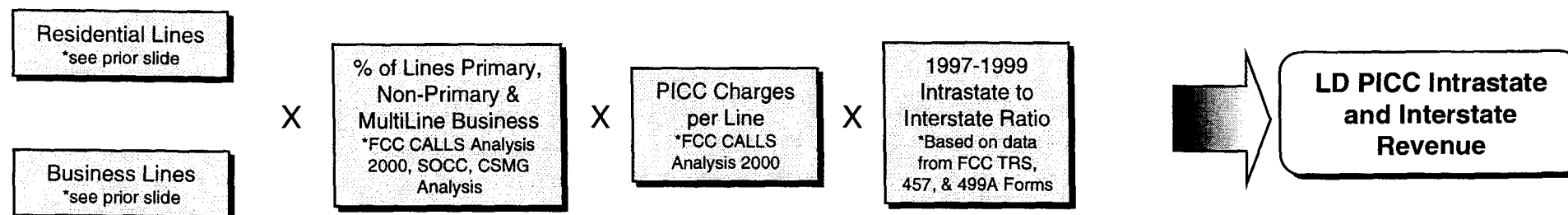
### RESIDENTIAL LD USAGE REVENUE:



### BUSINESS LD USAGE REVENUE:



### PICC PASS-THRU REVENUE: (Residential & Single Line Business PICC ends effective July 2000)



## Model structure for long distance revenues (continued)

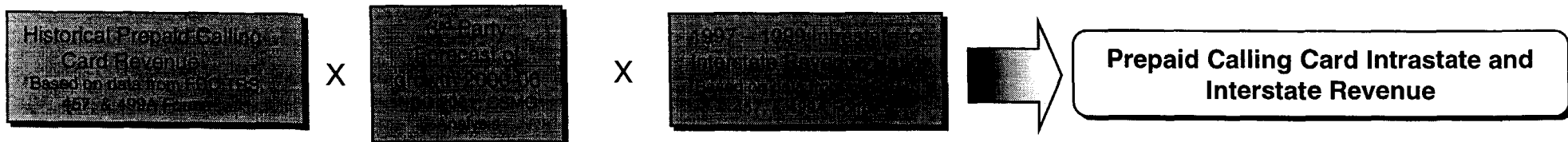
### PRIVATE LINE REVENUE:



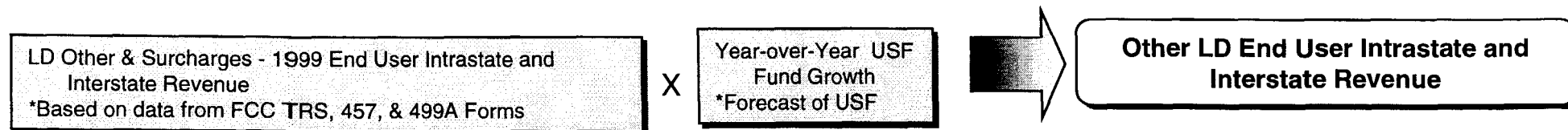
### OPERATOR & OTHER BILLING ARRANGEMENTS REVENUE:



### PREPAID CALLING CARD REVENUE:



### OTHER LD REVENUE:





**A universal service fund forecast is used in coordination with the end user interstate/international revenues from the national model to derive the USF contribution factor**

	2001	2002	2003	2004	2005	2006
<b>EXISTING PROGRAMS</b>						
<b>High-cost Fund</b>						
a) Rural (HCF including RTF)	974	1,031	1,090	1,153	1,219	1,289
b) Rural (LSS & LTS)	777	792	808	824	841	858
c) Non-rural (Proxy Model)	206	210	214	218	223	227
d) Non-rural (Hold-Harmless)	44	25	12	10	8	6
e) Non-rural (PRTC LTS)	98	98	98	98	98	98
f) CALLS Program	551	628	628	628	628	628
g) <b>Low Income Support</b>	528	554	570	585	600	625
h) <b>Schools / Libraries</b>	2,250	2,250	2,250	2,250	2,250	2,250
i) Rural Health Care	10	12	15	18	20	25
<b>FUTURE CHANGES</b>						
h) MAG Program	-	566	566	566	566	566
<b>Total</b>	<b>5,438</b>	<b>6,165</b>	<b>6,251</b>	<b>6,350</b>	<b>6,452</b>	<b>6,572</b>

- a) Pro forma to include RTF recommendation--line growth at 4.26% plus GDP-CPI at 1.49% (USF Task Force handout, 6/21/01).
- b) Local Switching Support and Long-term Support based on 1st quarter 2001 FCC Monitoring Report grown at 2% annually.
- c) Non-rural line growth estimated at 2% annually.
- d) Hold harmless is phased out \$1 per-line per month in 2001, \$2 in 2002, \$3 in 2003, et.
- e) Assumed Puerto Rico would keep its long-term support; currently waiver granted to 7/01/02.
- f) Fund assumed capped at \$650 m less the sale of 3 VZ states to a Non-price Cap Company
- g) Low-income support grown at 5% first year due to ramp-up of tribal penetration, then 2.5 to 4.17% each year thereafter.
- h) Fund assumed to remain at present capped level throughout projection.
- i) Assumed RHC would never reach the capped level.